

1 (10) ABSTRACT OF THE DISCLOSURE

2 A scan-print device is hand-held and is scanned over the surface of a paper-like
3 rewritable sheet. The sheet has a colorant responsive to a linear array of
4 pixel-sized electric fields written over the sheet by the scan-print device during
5 each scan, producing a bistable pixel (e.g., black or white) in response to field
6 polarity. The bi-stable, rewritable colorant is highly energy efficient, requiring
7 energy only to change an image, not to hold or illuminate it. Once a series of
8 scans sufficient to cover the entire sheet has been made, the printed image
9 appears as if printed conventionally. The print remains stable until reprinted or
10 intentionally erased. Combined with hand-held scanner-copier technology, a
11 portable copier is also implemented.